



Center for Information Technology
National Institutes of Health
Department of Health and Human Services



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http://www.nih.gov is one of the most frequently visited federal government Web sites.

	<i>December 2002</i>	<i>January 2003</i>	<i>February 2003</i>
Total hits for the month	43,739,270	53,064,873	48,542,060
Hits per day	1,410,944	1,711,770	1,733,645
Number of different individuals	364,356	454,310	443,172

The server has been up 100% for 1005* consecutive days (as of April 10, 2003).

* Server uptime does not include network accessibility.

Articles

CIT Now Offers a Web Content Management Service

CIT has recently started a new Web content management system (CMS) for the NIH community. Web content management is a relatively new category of software that solves a relatively old problem—information management. Relatively few business processes are in place to manage Web content, and most are manual.

The skills needed to organize, design, and maintain a Web site include both technical knowledge and familiarity with the content. As sites grow in size and complexity, many Web site managers are seeking ways to streamline and automate site development and management, particularly on the technical end. Managers are also looking for a way to restore responsibility for maintaining section(s) of a site to content “owners,” without forcing them to learn HTML. With more people involved in maintaining content, managers also want to maintain the integrity of the site—that is, to ensure a consistent look and feel, provide context-sensitive navigation, and eliminate dead links or dead ends. Providing all this on Web sites is difficult especially with manual solutions, so Web site managers are turning to automated solutions—and that usually means purchasing a content management system.

When you buy a CMS product, you are really buying software, not a system. The system evolves as the software is customized to fit your particular business requirements. The purchase of a CMS product alone is not the solution to your problem. Unless time is taken up front to define the business process, the software will not help.

After careful evaluation of the leading software products available, CIT has chosen Microsoft’s Content Management Server.



Benefits of the CMS Service

CIT’s CMS service offers Web managers considerable benefits, including:

- **Updating content** Web authors can update pages in their Web browser within the context of the page—no special Web tool or knowledge is required.
- **Navigation and links** Maintenance is handled automatically—no need to add or remove links when pages change.
- **Templates** Managers can maintain a consistent design throughout the site by giving authors templates to use.
- **Design control** Web site managers can customize the level of design and formatting for authors, yet retain control.

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- **Approval process** Managers can set up a workflow and approval process that ensures proper approval is obtained for new and revised pages.
 - **Dates** Authors and editors can set publish/expiration dates on any page, and all links to this page will appear/disappear at the designated time.
 - **Archiving** An archive of all versions of a page is available for review. A page can be rolled back to a previous version.
 - **Multiple versions** Different versions of the same page—graphic versus text-only pages or NIH-only versus public pages—can pull content from the same location *and* be updated with a single edit.
 - **Access** Access to the authoring site is part of the NIH Portal's standard NIH network login—no additional login is required.

CIT's CMS service is basically "turnkey." Managers of a Web site need to be involved in the development process in order to ensure that the software is customized to fit their organization's requirements. Thereafter, CIT will handle the remaining aspects of the process—initial planning, template development, content migration, and ongoing monitoring and operations. CIT is working directly with Microsoft consulting services in order to take advantage of real-life experiences and best practices.

Costs of the Service

The cost of CIT's CMS service is very low relative to the cost of a stand-alone system. As a conservative estimate, a mid-sized institute would probably need an initial investment of \$600,000 for its own stand-alone system. CIT is able to provide the CMS service at a price most NIH organizations can afford by leveraging the initial investment across a number of different sites in a shared environment.

Providing a CMS Web site entails two costs—the one-time cost to develop the site, and the on-going cost to host the site.

- **development cost** fixed-fee price from \$15,000 to \$25,000 per site, depending on amount of content and the complexity of the site.
- **hosting/ maintaining** annual fees range from \$15,000 to \$35,000, depending on Web site traffic and additional enhancements or features

More Information

If you would like a demonstration of how the service would work for you, need more information, or have questions about the service, please send e-mail to Tim Pickett at pickettt@mail.nih.gov or Sandy Desautels at sandy_desautels@nih.gov.



nVision Travel—Coming Soon to NIH Computers Everywhere

nVision will integrate data from numerous NIH enterprise systems and allow access to that data through a Web-based reporting application. By integrating business data from multiple sources, nVision will allow users to manage information and will improve an organization's decision-making capabilities.



nVision is the reporting system for the NIH Business System (NBS) and is an evolution of the NIH Data Warehouse (DW). Over the next few years, the NBS will replace the functions of the Administrative Database (ADB) and most of the Central Accounting System (CAS).

As each NBS business area is rolled out, nVision will deploy a corresponding reporting system. The DW will continue to offer all existing business areas until they have been updated and migrated to nVision. So for now, unless you use Travel reports, you will continue to use the DW just as you have. nVision Travel—the first business area of this new NIH business intelligence system—will soon be available for use.

The Difference between nVision Travel and DW Travel

nVision Travel reports contain the same type of information that has been included in DW Travel reports. The difference is that nVision Travel receives data from NBS Travel and DW Travel receives data from the ADB. Once the NBS Travel System goes live later this year, all new travel orders will be entered into NBS Travel instead of the ADB. For a while after nVision Travel (version 1.0) goes live, travel orders entered into the ADB will still be reported using DW Travel. Later this year historical travel data will be migrated from the DW to nVision. Then nVision will be the primary reporting system for all travel information.

nVision Can Make Your Job Easier

nVision is being developed using leading, state-of-the-art business information technology. Among the many useful features and benefits of nVision:

Web accessibility You don't have to install any software to use nVision. nVision is accessible from any PC or Mac that has Web access and a Web browser.

Easy login	<p>You access nVision using the NIH Login ID, which also permits access to a variety of information and systems available on the NIH Portal. Once you are successfully logged in to the NIH Portal [http://my.nih.gov], all NBS and nVision systems that you are registered for are available – no additional login is required. If you have any questions about how to login to the NIH Portal, contact the TASC help desk.</p> <p>See <i>Interface</i> (issue 225, December 2002) for articles on the NIH Portal, enterprise authentication, and nVision.</p>
Report Scheduling	You can receive reports automatically. They can be scheduled to print hourly, daily, weekly, or monthly. These reports can be delivered to an e-mail mailbox, or to your “favorites” folder on the nVision interface.
Data Saving	You can save data in a variety of formats for use with Microsoft Excel, Microsoft Word, Microsoft Outlook, and Adobe Acrobat Reader. You can include nVision reports in e-mail messages or combine data and perform calculations using spreadsheets.
“Favorite” Reports	These reports can be saved in a separate folder, with links for locating them quickly and easily.
Search	This feature (which finds reports by title, folder name, or individual field name) is a valuable tool for finding the right reports.
Listbox	This drop-down feature contains links to the last five reports you ran.
Enhanced Reporting	nVision capabilities include links that display detailed information within summary reports and reports that display information in chart format for easy comparison of data.

How to Register for nVision Travel

Registration will soon be available for nVision Travel. When nVision registration begins, an online registration form will be located on the nVision Web site [<http://nVision.nih.gov>]. If you are currently registered for the NIH Data Warehouse DWQuery Travel, after confirmation from your IC’s Executive Officer, you will automatically be given the same type of access to nVision Travel. All other users will need to complete the nVision registration process. Any questions you have can be sent to nVisionSupport@nih.gov.

More Information on nVision

- **nVision**

CIT Training has scheduled three sessions of “nVision Reporting: Travel” in May. nVision training is available for all NIH staff interested in hands-on, instructor-lead classroom training. For more information about nVision Travel and training registration, go to the CIT training Web page [<http://training.cit.nih.gov>], or call the TASC help desk.

Keep up with the latest developments on registration, training, and general information on the nVision Web page [<http://nVision.nih.gov>], or contact us at nVisionSupport@mail.nih.gov.

- **NBS**

The NIH Business System (NBS) and the Enterprise Human Resources and Payroll (EHRP) together comprise the NIH Business and Research Support System (NBRSS).

See articles on the development of NBS and NBRSS in *Interface* issues 214, 216, and 225. You can search the *Interface* Web page [<http://datacenter.cit.nih.gov/interface>] for NBS and NBRSS. See the NBRSS Web page [<http://nbrss.nih.gov>] for news.



NBRSS—Update on NBS Finance and Property

Keep informed of new developments via the Web-based *NBRSS Today Newsletter* [<http://nbrss.nih.gov/news.html#newsletter>]. The NIH Business System (NBS) and the Enterprise Human Resources and Payroll (EHRP) project comprise the NIH Business and Research Support System (NBRSS).

NBS Updates

- **Finance**

The General Ledger and Budget modules of the NBS continue running in tandem with the current Central Accounting System (CAS). The two systems are being reconciled so that the CAS General Ledger can be turned off and Oracle Financials can be used for processing accounting transactions at NIH.



- **Property**

Sunflower Assets has been selected to provide the property management functions for the NBS. The Property Team is preparing to migrate data from the current NIH Property Management Information System (PMIS) to the NBS property system.

More Information

Further information about NBS and NBRSS is located on the Web site [<http://nbrss.nih.gov>].

Your questions are welcome and may be directed to nbrss@mail.nih.gov.



“Ask TASC”—About NBS

TASC receives many calls each day from customers who are experiencing similar problems. In each issue of *Interface*, we will present some frequently asked questions and answers including some tips. We hope you find this information useful.

Q What is the NBS?

A The NIH Business System (NBS) and the Enterprise Human Resources and Payroll (EHRP) together comprise the NIH Business and Research Support System (NBRSS).

NBS is an agency-wide system that will modernize the way the NIH conducts business and research support processes through use of an enterprise resource planning (ERP) solution. NBS is a single, integrated transaction-based system that will link the NIH administrative and scientific support functions, including some that are not currently available through the Administrative Database (ADB). NBS will dynamically coordinate the core business functions of financial management, property, travel, service and supply fund (SSF), research and development (R&D) contracts, and acquisition/supply. With full integration, data elements from each business function will reside in one database, enabling a single business transaction to instantaneously update data in all related functional areas.

Q Can I access NBS from home?

A Yes. You can access it directly via Parachute. If you're using DSL, cable modem or a 3rd party dial-up ISP, you must utilize VPN. (See the article, “Ask TASC—About Remote Access,” in *Interface* issue 225 [<http://datacenter.cit.nih.gov/interface/interface224/tascremote.html>].)

Q Is Internet Explorer the browser I should be using?

A Only if you're on a PC. If you're using a Mac, Netscape is the recommended browser.

Q Can more than one person be logged into the same account at the same time?

A Yes, more than one person can log in to an account. However, only one person can work on a specific document at a time. The software prevents two people from working on the same document by "Edit Locking" out the second person, who is then unable to perform any actions on the document.

Q What are the instructions for logging into the Travel Sandbox via the Portal?

A When NBS Travel is in production, it will be accessible through the Portal. Just log in to the Portal and add it to your Community from NBRSS.

Q What is the initial password for the Sandbox?

A The initial password for all users is newtrav1—but be sure to use lower case and the number 1, not lower case L.

Q When first logging into the Sandbox, must I change my password to 12345678, or can I choose my own?

A For training purposes, it is preferred that the password and the signature PIN be set to "12345678."

Q I wasn't able to come to the Step 3 training. Will I be able to take it in the future?

A The NIH, Office of the Director, is making plans for future classes. The Training and Development Branch can be reached at (301) 496-6211. When the classes are announced, they will be placed on the Web [<http://learningsource.od.nih.gov>].

Q How can I be certain I'll return to the place in the Sandbox exercise where I left off?

A Before quitting the program, select "Close Document" and then select the "Log Out" tab.

Q How do I set up a printer for NBS?

A With the help of your LAN staff, compile and send to TASC the following information:

1. IC
2. network printer name
3. IP address of printer
4. manufacturer and model # of printer
5. building and room number of the printer
6. building and room number of the requestor

Q My document is "edit locked." How can I correct this?

A Please go to chapter 3, page 23 of the *NBS Travel Manager System Student Guide*, and follow the step-by-step instructions for removing an "edit locked" message. The *Guide* is available in PDF on the on the NBRSS training Web site for travel [<http://nbs.nih.gov/training.html#travel>].

If you have any questions regarding the NBS please call TASC, and a consultant will be happy to help you.

We welcome your ideas about topics in future editions of "Ask TASC." Please send suggestions to TASC@mail.nih.gov.

More Information on NBS

See articles on the development of NBS and NBRSS in *Interface* issues 214, 216, and 225. You can search the *Interface* Web page [<http://datacenter.cit.nih.gov/interface>] for NBS and NBRSS. See the NBRSS Web page [<http://nbrss.nih.gov>] for news.



VetPro—Federal Credentialing Program for Healthcare Providers

The NIH Computer Center hosts VetPro—a Web-based physician credentialing system for federal agencies that employ healthcare providers. VetPro increases the efficiency and accuracy of the credentialing process—it allows for accurate and complete credentials to be obtained once, electronically banked, and retrieved for review and updating in a secure Web-based environment. VetPro was created by the Federal Credentialing Program (FCP), which is responsible for developing a uniform healthcare credentialing process.



How VetPro Came Into Being

The development of the VetPro system is the result of close collaboration between the Department of Health and Human Services (HHS) and the Department of Veterans Affairs (VA). In 1997 HHS's Health Resources and Services Administration (HRSA)—specifically HRSA's Bureau of Health Professions (BHP) and Division of Practitioner Data Banks (DPDB)—and the VA's Veterans Health Administration (VHA) identified the need to facilitate the sharing of credentials. Both departments had strong reasons for replacing the cumbersome paper-based credentialing system with a system that provided faster communication of credentialing information. VA/VHA had 172 facilities and required re-credentialing of providers (e.g., doctors, dentists) every two years or each time a provider needed "privileging" at a different hospital; as a result, it had the expertise in the credentialing process. The DPDB had the

responsibility for protecting the public by providing information on practitioners, providers, and suppliers to various government authorities; as a result, it had expertise in operating efficient systems capable of supplying accurate, reliable, and timely information.

The collaboration resulted in an electronic data-storage and retrieval application called VetPro, so named because it “vets” or evaluates credentialing information. Software for the application was developed with the help of Keane Federal Systems, Inc. VetPro uses both image and data records to capture healthcare-provider data—including personal history, education, licensing, and work history. It eliminates the time-consuming paper process and incorporates verification procedures to reduce fraud. As an early advocate of VetPro put it, “it’s done once, and it’s done right.”

CIT was involved with VetPro during the development phase—CIT provided system architecture consulting, conducted need and risk assessments, and presented the technical platform at a VetPro symposium in Texas. Since its release in March of 2001, CIT has hosted the VetPro production system—Windows image, database, and Web servers. In July 2002, CIT made a presentation of VetPro at the annual FCP Credentialing Forum at the Hubert H. Humphrey building in Washington, D.C.

Measures of VetPro’s Success

In June 2002, VetPro/FCP was honored as having one of the most innovative information systems in e-government and was awarded an e-Gov 2002 Trailblazer Award. The award honors successful online programs by governments—at the federal, state, local, and international levels—that are user-friendly and models for effective e-government. In February 2003, VetPro/FCP received an award for their outstanding information technology achievements in the public service arena. VetPro is generally considered to be the gold standard for practitioner credentialing.

VetPro’s user base continues to grow. Other participants have joined VetPro—including the National Health Service Corps, U.S. Public Health Service’s Division of Commissioned Personnel, Office of Emergency Preparedness, Immigration and Naturalization Service, and the National Aeronautics and Space Administration. As of July 2002, more than 47,000 providers (doctors, dentists, and other healthcare professionals) were enrolled in the system.

Since 9/11 our country is facing increased potential for serious medical catastrophes. VetPro could prove very valuable in providing rapid, emergency credentialing of the medical personnel needed to cope with such crises.



Are You Ready to Move to Titan?

South applications should be on Titan by the end of 2003 – move now and avoid the rush.

If you use the South system you should be preparing now to move to Titan. Begin by going to the Web page on Titan [<http://silk.nih.gov/silk/titan/>] and looking at the changes you may need to make. Information is available under several headings:

- Overview of Changes for South Customers
- How to Begin Your Migration to Titan
- Titan Specifics Summary
- South System Summary of Changes

Then try to logon to Titan.

Articles of interest for both Titan and South users are published in the Web-based *Titan/South System News* [<http://datacenter.cit.nih.gov/titannews/>]. To ensure you get announcements of new issues, subscribe to the listserv e-mail list from the *Titan/South System News* Web page.

For more information or assistance, please call the TASC help desk.



Reminder—Disaster Recovery Test to Be Held on July 22

CIT schedules two hot-site tests each year so that critical application owners can verify their recovery procedures. The next test is scheduled for July 22, 2003.

If you wish to participate in the NIH Computer Center's disaster recovery program or to discuss your critical application requirements for the South and Titan (OS/390) or EOS (Unix) systems, please call the TASC help desk and ask to speak to the disaster recovery coordinator.



Attention *Interface* Subscribers—Get the Next Issue Faster

Interface is now a Web-based journal. We recommend that you read *Interface Online* to get information more quickly. Moreover, you will be able to search back issues (beginning in 1990).

New Web issues are announced to subscribers via e-mail. To get these announcements, subscribe to the Listserv e-mail list from the *Interface* Web page [<http://datacenter.cit.nih.gov/interface>].

If you need assistance, please contact the TASC help desk.



Computer Classes Available from the CIT Training Program

CIT Computer Training is in the midst of its spring term, which goes through mid-June. A wide variety of new and returning classes are available for scientists, computer support staff, and users. Classes are offered without charge, and sign-up is available online [<http://training.cit.nih.gov>].

New Classes

- Users will find two new classes on updated software. “What’s New in PowerPoint 2002” will look at the new and improved features in this latest version of Microsoft’s presentation software. “What’s New in Outlook 2002” will examine the enhancements available in this newest version of the Outlook e-mail client. Also, “Solving Computer Problems with Available Software” will look at commonly available software, show which tool is right for which tasks, and give tips and tricks for using each one more effectively.
- **Scientists**—AFNI (Analysis of Functional NeuroImages) is adding to the five current classes another on “SUMA (SUrface MApper).” This class will go through the various steps required to display functional activation maps on cortical surface models. Partek will also be adding some titles to its existing offerings: “Cluster Analysis & Advanced Visualization of Gene Expression Data” and “Advanced Statistical Analysis of Microarray Data Using ANOVA Techniques.” Another class will help those who are preparing images for publishing. “From Scan to PDF: Composing Scientific Figures with Adobe Photoshop and Illustrator” gives the basics of each tool necessary to move through the process. Finally, “Web Writing for NIH Science” will provide scientists and scientific support staff with a model for conveying scientific information to a variety of audiences via the Web.
- **Statistics**—“Bringing Data Files into SAS” will help new users bring in and work with existing data from other sources. The SAS Institute will also be bringing back two other classes.

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- **IT Project Managers**—Two new classes are available. “Security in the Application Development Lifecycle” will discuss the security concerns that arise in application development and how to deal with them throughout a project. “Introduction to Requirement Lifecycle Management” will examine how to determine solid requirements at the start of a project.
 - **nVision**—Training will prepare anyone who will be accessing travel data from the NBS Travel system.

More Information

As always, classes are available free of charge to NIH employees and other users of NIH computing facilities. The courses are offered to help individuals become more efficient and effective in using computing, networking, and information systems in their work.

To obtain full course information or to register for classes, please visit the training Web site [<http://training.cit.nih.gov/>]. Of course, you are always welcome to call the TASC help desk if you wish to discuss course registration, teaching a class, or other training issues.



Computer Training Calendar—Spring 2003

April

942B	Using Photoshop to Work with Scientific Images	4/15
637A	Introduction to HTML	4/16
368	Securing Your Home Network	4/16
349	Remedy - Customer Service Tool	4/16
170	NIH Data Warehouse Analyze: Budget & Finance	4/17
160B	Budget Tracking	4/17
934	FreeSurfer: Create Surface Models for 3D MRI Volume Data	4/17
972C	mAdb Basic Informatics	4/21
971	NCBI's MapViewer Quick Start	4/22
639	Introduction to Cascading Style Sheets	4/22
180B	NIH Data Warehouse Query: Budget & Finance	4/22
733B	The QVR System--Access to PUB2002 (Frozen Data) from the IMPAC System	4/22
876	Advanced FileMaker Pro 5	4/23
374B	LISTSERV Electronic Mailing Lists: Hands-On Workshop for List Owners	4/23
929C	EndNote for Windows - Introduction	4/24
195	NIH Data Warehouse Query: Staff Training & Development	4/24
710	The ABC's of ABC/M (Activity-Based Costing and Management)	4/24
935	SUMA (SURface MAPper)	4/25
973B	Statistical Analysis of Microarray Data	4/28
184	NIH Data Warehouse Query: Procurement & Market Requisitions	4/29
308	Using SQL to Retrieve DB2 and Oracle Data	4/29 - 30

May

219	Getting Started with the SAS Output Delivery System	5/1
843	Hands-On PC Upgrading and Security	5/1
947	Easy Large-Scale Bioinformatics on the NIH Biowulf Supercluster	5/6
180C	NIH Data Warehouse Query: Budget & Finance	5/6
637B	Introduction to HTML	5/6
400B	Fundamentals of Unix	5/6 - 8
200	Introduction to Statistics	5/7 - 8
191B	NIH Data Warehouse Query: Research Contracts & Grants	5/8
823C	Creating Presentations with PowerPoint for the PC	5/9
611	Seeking Information on the Web	5/13
199	NIH Data Warehouse Query: Advanced Query & Reporting Workshop	5/13
945	From Scan to PDF: Composing Scientific Figures with Adobe Photoshop and Illustrator	5/13
253	Categorical Data Analysis Using Logistic Regression in SAS Software	5/13 - 15
972D	mAdb Basic Informatics	5/14
824B	PowerPoint Topics: Graphs, Links and More	5/14
976	NCBI's Making Sense of DNA and Protein Sequences	5/15
873	OS X Tips and Tricks	5/15
797	Introduction to Requirement Lifecycle Management	5/16
510E	Looking Ahead to nVision	5/19
614	Web Writing for NIH Science	5/20
825B	What's New in PowerPoint 2002?	5/21
388	Active Directory at NIH for Network Administrators and Developers	5/21
719	Security in the Application Development Lifecycle	5/22
832	What's New in Outlook 2002?	5/22
835	Solving Computer Problems with Available Software	5/22
911	Designing Effective Scientific Slides	5/22
824C	PowerPoint Topics: Graphs, Links and More	5/28

June

510D	Looking Ahead to nVision	6/4
720	Security Software Tools	6/5
981C	Partek Pro for Gene Expression Analysis	6/5
983B	Cluster Analysis & Advanced Visualization of Gene Expression Data with Partek Pro	6/5
984C	Advanced Statistical Analysis of Microarray Data Using ANOVA Techniques with Partek Pro	6/5
367	Building a Home Network	6/6
919	Introduction to Perl for Biologists	6/10 - 13
343B	The NIH Contractor Performance System for New Users	6/11
974C	mAdb Intermediate Informatics	6/11 - 12
215	Bringing Data Files into SAS	6/18

Note: This list does not currently include our selection of Self Study materials, which are available on the Web [<http://training.cit.nih.gov/selfstudy/selfstudy.asp>].



Dates to Remember

Now ...

- CIT now offers a Web content management service.
- EOS systems will no longer accept telnet access. ^E [See also issues 225]
- The updated *Titan User's Guide* (OS/390 Standard System) (December 2002) is available. ^{S T}
- A new *Titan Batch Processing* manual (April 2003) is available on the Web. ^{S T} [<http://publications.cit.nih.gov/>] Use link for "Batch Processing and JCL."
- Join the "Interface" Listserv list to see new issues as soon as they are available on the Web. [<http://list.nih.gov/archives/interface.html>]
- Join the "CIT-doc-renew" Listserv list to be notified when new or updated manuals are available. [<http://list.nih.gov/>]

Coming soon ...

Spring	Deployment of enterprise authentication for ITAS and NBS modules (e.g., Travel, General Ledger and Budget) will begin. [See also issues 223, 224, 225]
Spring	nVision Travel will be deployed at the same time as NBS Travel.

Later in 2003 ...

July 22	• Disaster recovery off-site test. ^{E S T}
Winter	South applications will have been moved to Titan. ^{S T}

E EOS System
S OS/390 South System
T OS/390 Titan System

Articles in other issues of *Interface* appear in brackets [].



Publications

The following documents have become available since the last issue of *Interface*. They are available from the CIT publications [<http://publications.cit.nih.gov/>] Web page.

Publications are available under the “View/Print on Demand” (VPOD) system in hardcopy, online viewing, and PDF. To be notified of new or updated documentation that has been added to the VPOD system, join the Listserv list, “CIT-doc-renew” [<http://list.nih.gov/archives/cit-doc-renew.html>].

Mainframe Systems (IBM OS/390 Servers)

New

Titan Batch Processing (April 2003)

Helix Systems (Unix Servers)

New

MATLAB Symbolic Math Toolbox User Guide

MATLAB Using SIMULINK & Writing S Functions

C++ How to Program



Popular Web Sites for Users of the NIH Computer Center

Service	Web Address
National Institutes of Health	http://www.nih.gov
Antivirus Web site	http://antivirus.nih.gov
Information Systems Designated Procurement NIH	http://isdp.cit.nih.gov
NIH Business and Research Support System	http://nbrss.nih.gov
NIH Data Warehouse	http://datatown.nih.gov
NIH Electronic Directory	http://ned.nih.gov
NIH nVision	http://nvision.nih.gov
NIH Portal	http://my.nih.gov
Center for Information Technology	http://cit.nih.gov
Computational Bioscience Molecular Modeling	http://cmm.info.nih.gov/modeling
NIH Computer Center	http://datacenter.cit.nih.gov
Scientific Computing	
<i>ALW</i>	http://www.alw.nih.gov
<i>Helix Systems</i>	http://helix.nih.gov
NIH Biowulf Cluster	http://biowulf.nih.gov
Enterprise Computing	
<i>OS/390</i>	http://datacenter.cit.nih.gov/mvs
Transition Update	http://silk.nih.gov/silk/titan
“Titan/South System News”	http://datacenter.cit.nih.gov/titannews
<i>Titan</i>	
RACF	http://titan.nih.gov/racf
SILK Web	http://titan.nih.gov/
Web Sponsor	http://websponsor.cit.nih.gov
<i>South</i>	
RACF	http://silk.nih.gov/racf
SILK Web	http://silk.nih.gov
Web Sponsor	http://silk.nih.gov/sponsor/homepage
<i>Unix (EOS)</i>	http://datacenter.cit.nih.gov/eos
<i>Windows Server Services</i>	http://wintelhosting.cit.nih.gov
Application Service Request (ASR)	http://hosting.cit.nih.gov/asr/log.cfm
ColdFusion	http://cfhosting.cit.nih.gov
Database Technologies	http://silk.nih.gov/dbtech
<i>Interface</i>	http://datacenter.cit.nih.gov/interface
NIH Backup and Recovery Service (NBARS)	http://silk.nih.gov/silk/nbars
Oracle Hosting Service	http://silk.nih.gov/silk/citoracle
Customer Services	
Accounts	http://support.cit.nih.gov/accounts
Customer Support	http://support.cit.nih.gov
Publications	http://publications.cit.nih.gov
Service Request	http://support.cit.nih.gov
TASC Help Desk	http://support.cit.nih.gov
Training	http://training.cit.nih.gov
Network Systems	
Listserv	http://list.nih.gov
NIHnet	http://www.cit.nih.gov/dnst/DNSTweb/handbook.html
Parachute	http://parachute.nih.gov

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